Date: 20-05-2019

TABLE 1.2

| SL No | Test conducted | Test Results | Tests Conforms to IS 2386( Part I to IV)– 1963 ( Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013. |
|---|---|---|---|
| 1. | Aggregate Impact Value | 25.58 % | Not more than 30.00 % |
| 2. | Combined Flakiness and Elongation index, % | 26.45 % | Not more than 35.0 % |
| 3. | Water absorption, % | 0.38 % | Not more than 2.0 % |
| 4. | Plasticity Index, % | NP | Not more than 6.0 % |

K.R
KIRAN. R
M.E, (Civil-Engg)



For Newzen Consultants Bangalore

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187

NC/QC/W-06/2019-20/RC-C5

Date: 22-05-2019

## 1. TEST REPORT ON CEMENT:

**Sub**: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}

**Ref.**: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

### PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

**TABLE 1.1:**

| SL No | Name of Test | Test Results | Requirements as per IS 8112-1989 |
|---|---|---|---|
| 1 | Initial setting time | **165min** | Shall not be less than 30 min |
| 2 | Final setting time | **270min** | Shall not be more than 600 min |
| 3 | Fineness (by dry sieving on IS 90 micron sieve) | **1.76 %** | Not to exceed 10.0% |
| 4 | Soundness test(by Le-Chatelier's method) | **2.15 mm** | Shall not be more than 10 mm |
| 5 | Compressive strength d) 3 days (average of three results) | **28.68 N/Sq mm** | Shall not be less than 27 N/Sqmm |

KIRAN. R
M.E, (Civil-Engg)



For Newzen Consultants Bangalore

Proprietor

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187

NC/QC/W-06/2019-20/RC-PCC4 **Date: 22-05-2019**

## 1. TESTING OF COARSE AND FINE AGGREGATES:

**Sub**: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}

**Ref.**: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

## 2. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

| IS Sieve Size, mm | Percentage passing | Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing | |
|---|---|---|---|
| | 40 mm Sample | Single size | Graded |
| 40mm | 100.00 | 85-100 | 90 – 100 |
| 20mm | 67.05 | 0 -20 | 30- 70 |
| 10mm | 24.15 | 0 -5 | 10- 35 |
| 4.75mm | 3.85 | ------ | 0- 5 |

## 2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

| IS Sieve Size, mm | Percentage Passing | Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing | | | Remarks |
|---|---|---|---|---|---|
| | | Zone-I | Zone-II | Zone -III | |
| 04.75 | 98.15 | 90-100 | 90-100 | 90-100 | The Sample Conforms to Grading **Zone-II** |
| 02.36 | 86.25 | 60-95 | 75-100 | 85-100 | |
| 01.18 | 76.35 | 30-70 | 55-90 | 75-100 | |
| 600.mic | 46.90 | 15-34 | 35-59 | 60-79 | |
| 300.mic | 17.40 | 5-20 | 8-30 | 12-40 | |
| 150.mic | 8.05 | 0-10 | 0-10 | 0-10 | |

KIRAN. R
M.E, (Civil-Engg)



For Newzen Consultants Bangalore

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187

NC/QC/W-06/2019-20/RC-C6 **Date: 24-05-2019**

## 1. TEST REPORT ON CEMENT:

**Sub**: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}

**Ref.**: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

### PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

**TABLE 1.1:**

| SL No | Name of Test | Test Results | Requirements as per IS 8112-1989 |
|---|---|---|---|
| 1 | Initial setting time | **164min** | Shall not be less than 30 min |
| 2 | Final setting time | **275min** | Shall not be more than 600 min |
| 3 | Fineness (by dry sieving on IS 90 micron sieve) | **1.96 %** | Not to exceed 10.0% |
| 4 | Soundness test(by Le-Chatelier's method) | **2.18 mm** | Shall not be more than 10 mm |
| 5 | Compressive strength e) 3 days (average of three results) | **28.58 N/Sq mm** | Shall not be less than 27 N/Sqmm |

KIRAN. R
M.E, (Civil-Engg)



For Newzen Consultants Bangalore

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187

NC/QC/W-06/2019-20/RC-PCC5 **Date: 24-05-2019**

## 1. TESTING OF COARSE AND FINE AGGREGATES:

**Sub**: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}

**Ref.**: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

## 3. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

| IS Sieve Size, mm | Percentage passing | Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing | |
|---|---|---|---|
| | 40 mm Sample | Single size | Graded |
| 40mm | 100.00 | 85-100 | 90 – 100 |
| 20mm | 65.40 | 0 -20 | 30- 70 |
| 10mm | 24.90 | 0 -5 | 10- 35 |
| 4.75mm | 3.75 | ------ | 0- 5 |

## 2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

| IS Sieve Size, mm | Percentage Passing | Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing | | | Remarks |
|---|---|---|---|---|---|
| | | Zone-I | Zone-II | Zone -III | |
| 04.75 | 96.45 | 90-100 | 90-100 | 90-100 | The Sample Conforms to Grading **Zone-II** |
| 02.36 | 87.30 | 60-95 | 75-100 | 85-100 | |
| 01.18 | 74.90 | 30-70 | 55-90 | 75-100 | |
| 600.mic | 45.05 | 15-34 | 35-59 | 60-79 | |
| 300.mic | 16.45 | 5-20 | 8-30 | 12-40 | |
| 150.mic | 8.05 | 0-10 | 0-10 | 0-10 | |

KIRAN. R
M.E, (Civil-Engg)



For Newzen Consultants Bangalore

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Proprietor

NC/QC/W-06/2019-20/RC-CB7 **Date: 03-06-2019**

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}

**Ref.**: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

### RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : $M_{30}$

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 27-05-19 | 03-06-19 | 07 | 22500 | 520 | 23.11 | **23.19** |
| | 002 | " | " | " | " | 530 | 23.56 | |
| | 003 | " | " | " | " | 515 | 22.89 | |

K.R
KIRAN. R
M.E, (Civil-Engg)



For Newzen Consultants Bangalor

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Proprietor

NC/QC/W-06/2019-20/RC-CB8 **Date: 03-06-2019**

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}

**Ref.**: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

### RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : $M_{30}$

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 27-05-19 | 03-06-19 | 07 | 22500 | 520 | 23.11 | **23.04** |
| | 002 | " | " | " | " | 525 | 23.33 | |
| | 003 | " | " | " | " | 510 | 22.67 | |

KIRAN. R
M.E, (Civil-Engg)



Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

For Newzen Consultants Bangalore

Proprietor

NC/QC/W-06/2019-20/RC-CB9 **Date: 04-06-2019**

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}

**Ref.**: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

### RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : $M_{30}$

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 28-05-19 | 04-06-19 | 07 | 22500 | 525 | 23.33 | **23.56** |
| | 002 | " | " | " | " | 530 | 23.56 | |
| | 003 | " | " | " | " | 535 | 23.78 | |

KIRAN. R
M.E, (Civil-Engg)



For Newzen Consultants Bangalore

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Proprietor

NC/QC/W-06/2019-20/RC-CB7a

Date: 24-06-2019

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

### RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : $M_{30}$

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 27-05-19 | 24-06-19 | 28 | 22500 | 730 | 32.44 | **32.59** |
| | 002 | " | " | " | " | 745 | 33.11 | |
| | 003 | " | " | " | " | 725 | 32.22 | |

KIRAN. R
M.E. (Civil-Engg)



For Newzen Consultants Bangalore

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187

NC/QC/W-06/2019-20/RC-CB8a

Date: 24-06-2019

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}

**Ref.**: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

### RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : $M_{30}$

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 27-05-19 | 24-06-19 | 28 | 22500 | 730 | 32.44 | **32.37** |
| | 002 | " | " | " | " | 735 | 32.67 | |
| | 003 | " | " | " | " | 720 | 32.00 | |

K.R
KIRAN. R
M.E, (Civil-Engg)



For Newzen Consultants Bangalore

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187

NC/QC/W-06/2019-20/RC-CB9a

Date: 25-06-2019

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to Roads & Drains at Railway mens Colony Surrounding areas in Ward no 06 Thanisandra Bytarayanapura Sub Division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: P. Hemanth (Soorya Creators)

### RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : $M_{30}$

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 28-05-19 | 25-06-19 | 28 | 22500 | 730 | 32.44 | **32.52** |
| | 002 | " | " | " | " | 740 | 32.89 | |
| | 003 | " | " | " | " | 725 | 32.22 | |

KIRAN. R
M.E, (Civil-Engg)



For Newzen Consultants Bangalore

Executive Engineer
Project Division
Yelahanka Zone
Bangalore